

**Claims**

1. Process for cleaning a filtration membrane by dosing one or more water-soluble peroxide compounds, which are not essentially hydrogen peroxide, to the influx.  
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2. Process for cleaning a filtration membrane according to claim 1 wherein furthermore one or more activators and/or one or more reductants are dosed to the influx.  
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3. Process for cleaning a filtration membrane according to claim 2 wherein the activator comprises a Fe-salt, a Mn-salt, a Cu-salt, a Ni-salt, a Co-salt, or an amine compound, and preferably, said activator comprises a Fe-salt.
- 15 4. Process for cleaning a filtration membrane according to claim 2 wherein the reductant is selected from the group consisting of oxalic acid, a (bi)sulfite salt, ascorbic acid, isoascorbic acid, and sodium formaldehyde sulfoxylate.
- 20 5. Process for cleaning a filtration membrane according to any one of the preceding claims wherein the peroxide compound is selected from the group consisting of monofunctional peracids, alkali (earth) metal salts of monofunctional peracids, polyfunctional peracids, alkali (earth) metal salts of polyfunctional peracids, organic hydroperoxides, peresters, percarbonates, alkali (earth) metal salts of percarbonates, alkali (earth) metal or ammonium salts of persulfates, and alkali (earth) metal or ammonium salts of perborates.  
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6. Process for cleaning a filtration membrane according to claim 5 wherein the peroxide compound is selected from the group consisting of peracetic acid, perpropionic acid, monopersuccinic acid, monoperglutaric acid, acetylacetone peroxide, and magnesium monoperoxyphthalic acid.  
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7. Process for cleaning a filtration membrane according to any one of the preceding claims wherein one or more chelating compounds are added to the influx.
- 5 8. Process for cleaning a filtration membrane according to any one of the preceding claims wherein one or more surfactants are added to the influx.
9. Process for cleaning a filtration membrane according to any one of claims 1-6 wherein one or more activators, one or more reductants, one or more  
10 chelating compounds, and one or more surfactants are added to the influx.
10. Process for cleaning a filtration membrane according to claim 2 wherein the activator and/or reductant is intermittently added to the influx.
- 15 11. Process for cleaning a filtration membrane according to any one of the preceding claims wherein the peroxide compound is intermittently added to the influx.
12. Process for cleaning a filtration membrane according to any one of the  
20 preceding claims wherein the membrane is selected from the group consisting of a reverse osmosis membrane, a nanofiltration membrane, an ultrafiltration membrane, a microfiltration membrane, and a particle filtration membrane.